SPASSKAYA, R.I.; KAZARNOVSKIY, S.N.

Continuous method of producing guanidine from urea. Khim.prom. no.7:488-491 J1 163. (MRA 16:11)

ANTIPINA, 1. V.; KAZARNOVSKIY, S. N.; Prinimala uclastiy: LEHEDEVA

Oxidation of cyclohexylamine by hydrogen peroxide to cyclohexanone oxime. Khim prom no. 3:165-170 Mr '64. (MIRA 17:5)

MALKINA, N.I.; KAZARNOVSKIY, S.N.

Synthesis of cyanuric acid from urea. Zhur.prikl.khim. 37 no. 5:1158-1160 My '64. (MIRA 17:7)

1. Gor'kovskiy politekhnicheskiy institut imeni A.A.Zhdanova.

L 10407-66 EWT (m) /EWP (w) /EWP (1) /T/EWP (t) /EWP (b)

Monograph ACC NR: JD/WB/DJ/WE/RM Monograph Kolotukhin, Ivan Nikiforovich; Kuznetsov, Vasiliy Georgiyevich UR/ Semen Naumovich; Tsaregradskiy, Vladimir Alekseyevich ; Kazarnovskiy Lubricating and protective materials (Smazochnyye it zashchitnyye materialy) 3d ed., rev. and enl. Moscow, Izd-vo "Transport," 1965. 171 p. illus., biblio., 8000 copies printed. TOPIC TAGS: lubricant, lubricant component, lubricant property, lubricating oil, grease, lubrication, paint, lacquer, detergent, railway rolling stock, protective coalding, corrosion protection PURPOSE AND COVERAGE: This monograph presents the basic properties, test and preparative methods, and also applications for lubricant and protective paints and lacquers required in the railroad industry. Compared with the second edition, this edition provides additional information on synthetic oils greases new synthetic polymeric paints and lacquers, and also detergents and polishing compositions. The monograph was approved by the State Administration for Educational Institutions of the Ministry of Transport as a textbook for rail transport technical schools and can be used by a wide range of workers who are connected with painting and lubrication of rolling stock. Card 1/3 UDC: 625.23/.24002.4:[621.892+66]

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SUB CODE: FP, MT/SUBM DATE: 25Mar65/ ORIG REF: 032

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ALTERNATION OF THE PROPERTY OF

KOLOTUKHIN, Ivan Nikiforovich; KUZNETSOV, Vasiliy Georgiyevich; KAZARNOVSKIY, Semen Naumovich; TSAREGRADSKIY, Vladimir Aleksoyevich; SARANTSEV, Yu.S., red.

[Lubricating and protective materials] Smazochnye i zashchitnye materialy. Izd.3., perer. i dop. [By] I.N.Kolotukhin, i dr. Moskva, Transport, 1965. 171 p. (MIRA 18:4)

KAZARNOVSKIY, V.

[Analysis of the financial administration of industrial enterprises]
Analis khosiaistvennoi deiatel'nosti promyshlennogo predpriiatiia.
Moskva, Gosfinisdat, 1954. 133 p.
(MLRA 7:12)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721330005-0"

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Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, 15-57-4-5393

p 184 (USSR)

AUTHORS:

Borisova, E. A., Kazarnovskiy, V. D.

TITLE:

Laboratory Investigations on the Treatment of Saline Soil by Liquid Bitumen With Preliminary Flushing by Water (Laboratornyye issledovaniya po obrabotke zasolennykh gruntov zhidkim bitumom s predvaritel'noy promyvkoy

PERIODICAL:

Tr. Mosk. avtomob.-dor. in-ta, 1956, Nr 18, pp 241-248.

ABSTRACT:

The material used was chloride-sulfate saline soil cut from a section of rock in the Andizhanskaya Oblast', Uz SSR. The data of the investigations are given. was discovered that when the chloride and sulfate content of soil exceeds one percent, the soil is unsuitable for treatment with organic binding material in highway construction and demands preliminary flushing

Card 1/2

by water. The authors outline the relationship between number of flushings of the soil by water and the quantity

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721330005-0"

Laboratory Investigations on the Treatment of Saline (Cont.) 15-57-4-5393

of indroducible bitumen. They show the possibility of lowering the quantity of binding substance by increasing the number of flushings, and, on the other hand, lowering the number of flushings by somewhat increasing the expenditure of binding substance, depending on the economy of the construction. It is noted that flushing of the soil has not yet been applied in highway-construction practice. However, flushing the soil before treating with liquid bitumen may prove to be much more profitable than replacing the saline soil. The results obtained from testing samples by composite flushing of soil and use of liquid bitumen (bulk weight, water saturation, swelling, durability of dry and capillary-moistened samples) are in agreement, according to the degree of fitness of saline soils, with the classification of the "Technical rules on the construction of a roadbed and highway base in the desicated zone on saline soils." Flushing of the soil (2 to 3 times) is proposed for the roadbed immediately next to the highway. For flooding sections of the earthen roadbed, it is necessary to construct retaining borders of planking or of low Card 2/2

Ye. G. B.

KAZARNOVSKIY, V.D., ingh.; KAZARNOVSKAYA, E.A., ingh.

Washing salty soils for road construction. Trudy MADI no.22: 170-175 '58. (MIRA 12:4)

(Soil physics) (Road construction)

KAZARNOVSKIY, Vladimir Davydovich; GANYUSHIN, A.I., red.; MAL'KOVA, N.V., tekhn. red.

> [Calculation of the shear strength of soil in the designing of a road] Uchet soprotivliaemosti grantov sdvigu pri proektirovanii dorozhnoi konstruktsii. Moskva, Avtotransizdat, 1962. 34 p. (MIRA 15:5)

(Soil mechanics)

(Roads-Designing)

CIA-RDP86-00513R000721330005-0" APPROVED FOR RELEASE: 06/13/2000

KAZARNOVSKIY, W.D., inzh.

Degree of soil stabilization and the shear resistance of ground. Avt.dor. 24 no.12:15-17 D *61. (MIRA 14:12) (Soil stabilization)

MASLOV, N.N., prof., doktor tekhn.muak, zaslushennyy deyatel' nauki i tekhniki FSFSR; KAZARNOVSKIY, V.D., inzh.

Using the density-humidity method in determining soil resistance. Avt.dor. 25 no.12:19-21 D 162. (MIRA 16:2) (Soil mechanics)

FUZAKOV, N.A., uokuor tekhn. nauk; KHARKHUTA.N.Ya., doktor tekhn.
nauk; MOTYLEV, Yu.L., kand. tekhn. nauk; VEYLZAAN, M.I.,
kand. tekhn. nauk; MITASOV, 1 V., inzh.; LEVITSKIY, Ye.F.,
inzh.; RUMANOV, A.Z., inzh.; Prinimali uchastiye; MAZARNOVSKIY,
W.D., kand. tekhn. nauk; DENISOV, Ye.M., inzh.; TOFOL'NITSKAYA,
L.F., red.

[Instruction for building earth automobile roadbeds] Instruktsiis po sooruzheniiu zemlianogo polotna avtomobil'nykh dorog (VSh 97-63). Moskva, Transport, 1964. 238 p. (MIRA 17:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy proizvodstvem y komitet pc transportnomu stroitel*stvu.

KAZARNOVSKIY, Ya. S.

"The Explosive Conversion of Methane, Part 1", Khimicheskaya Pererabotka Neftyanykh Uglevodorodov (Chemical Conversion of Petroleum Hydrocarbons), Academy of Sciences USSR, Moscow, 1956, pp 133-141

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KAZARNOVSKIY, Ta. S.

Pererabotka Neftyanykh Uglevodorodov (Chemical Conversion of Petroleum Hydrocarbons), Academy of Sciences USSR, Moscow, 1956, pp 142-152

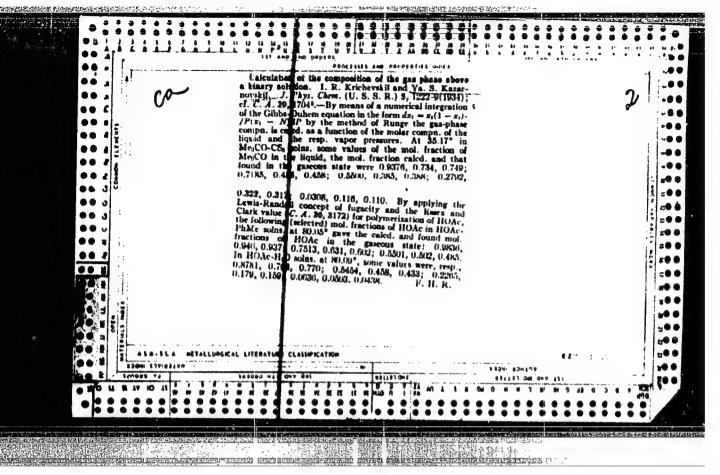
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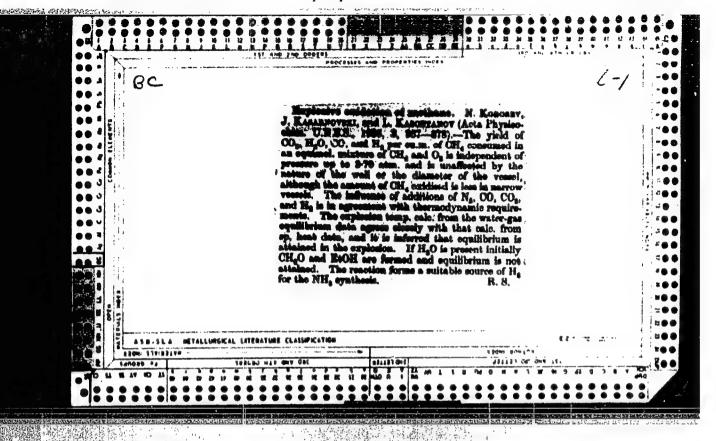
KAZARNOVSKIY, Ya. S.

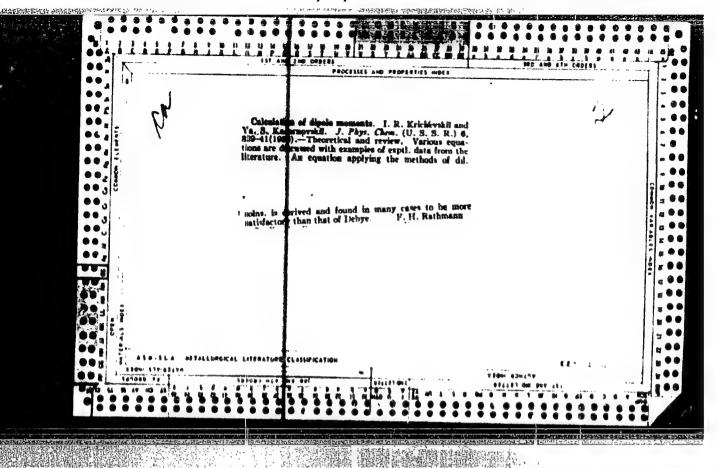
"The Explosive Conversion of Methane; Part 3," Khimicheskaya Pererabotka Neftyanykh Uglevodorodov (Chemical Conversion of Petroleum Hydrocarbons), Academy of Sciences USSR, Moscow, 1956, pp 153-166

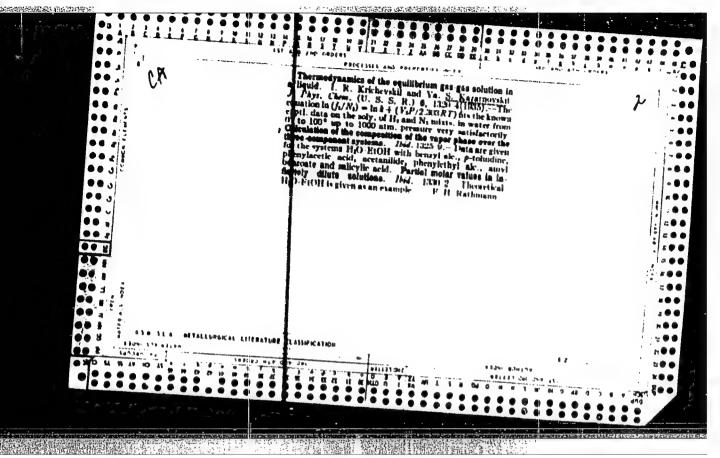
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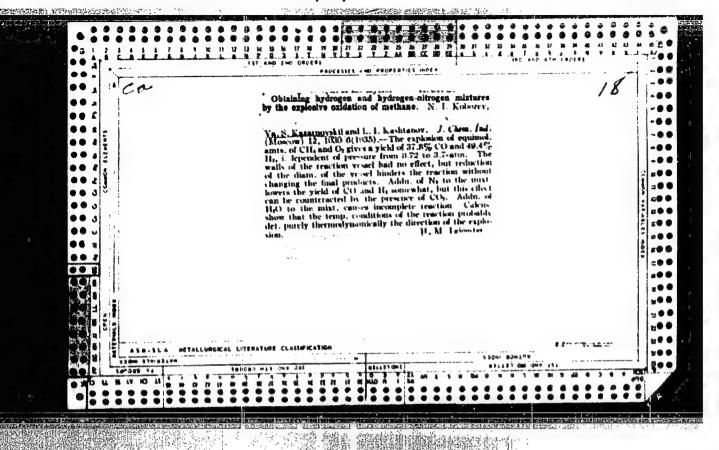


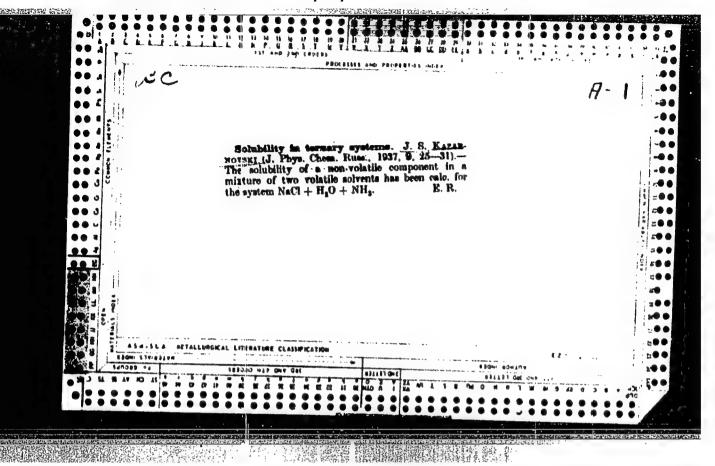


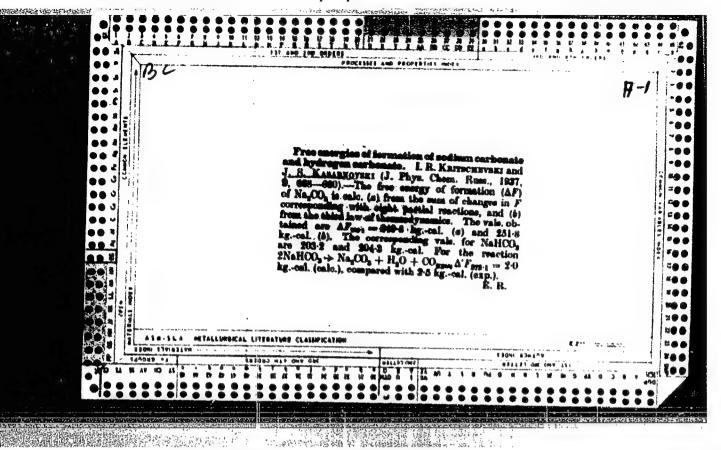


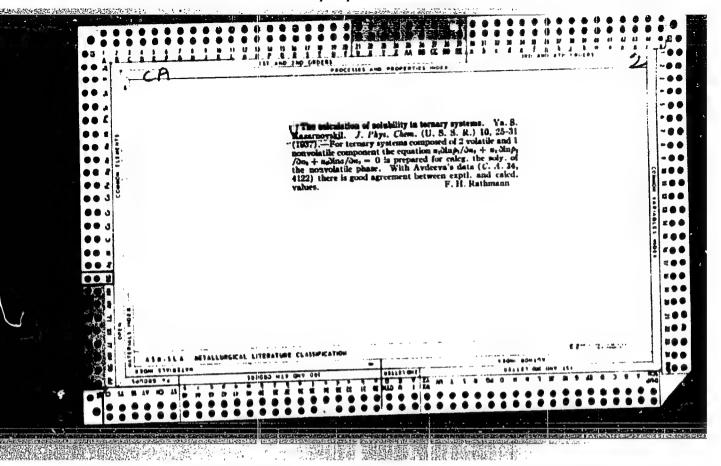


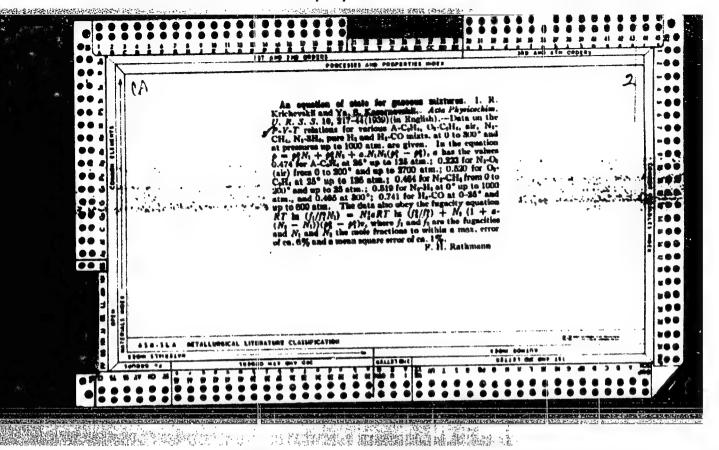


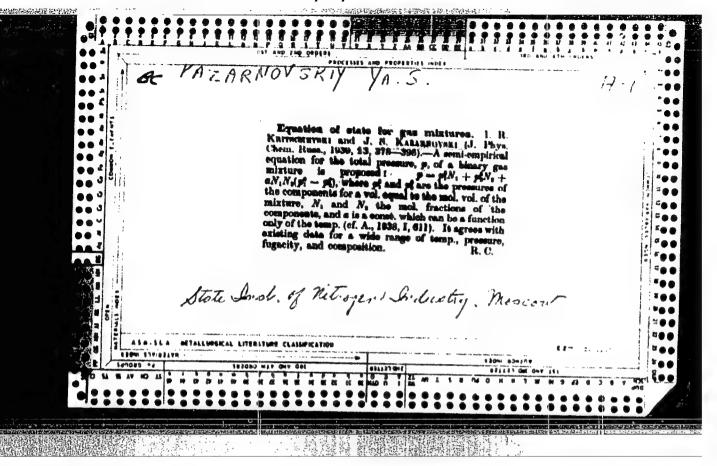


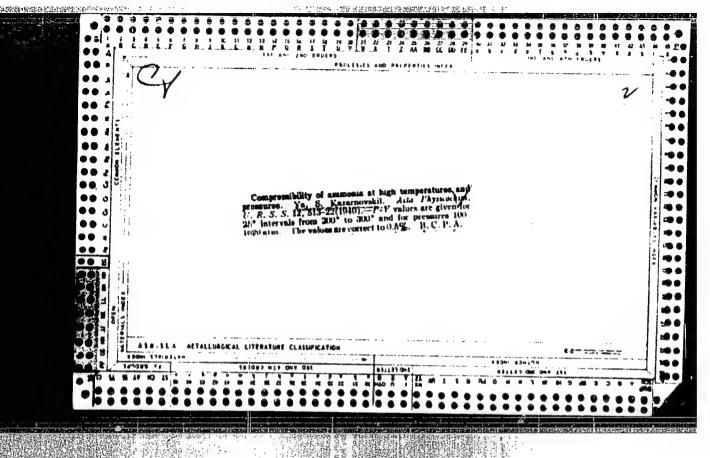


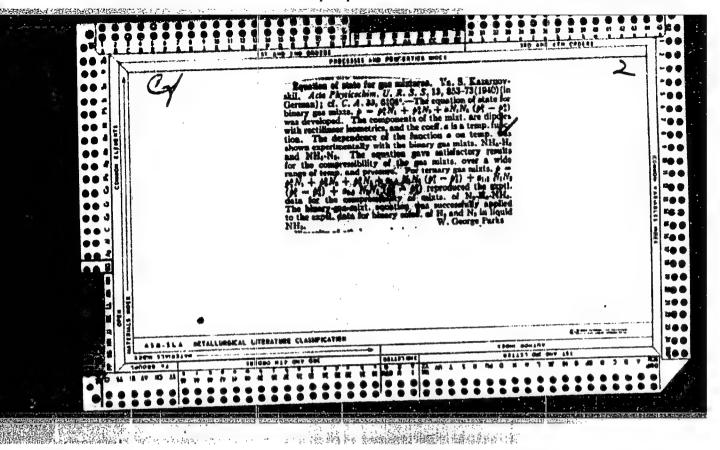


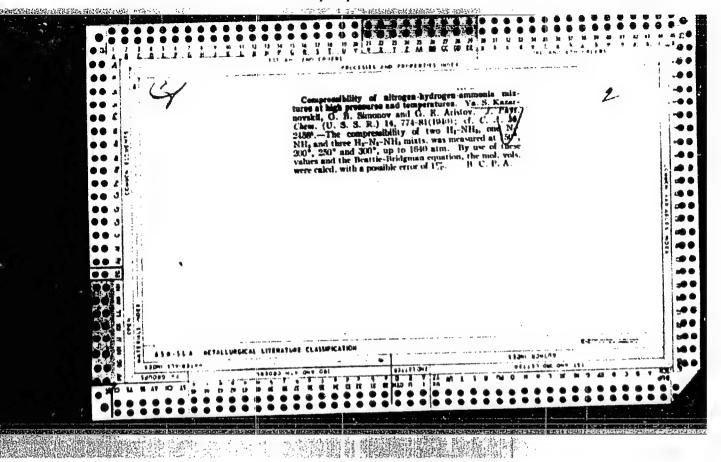


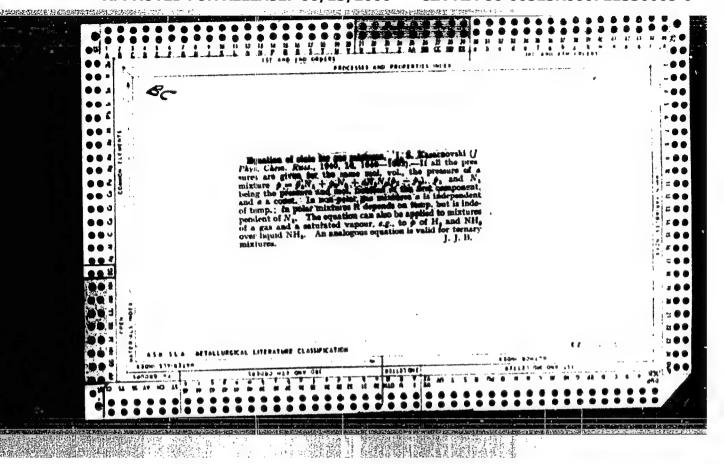


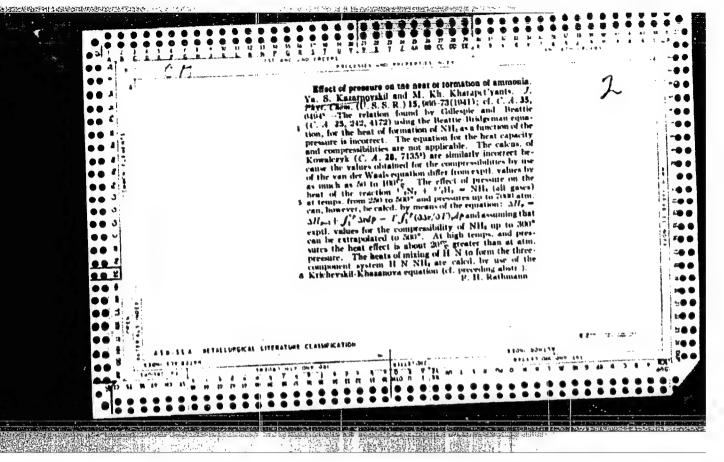




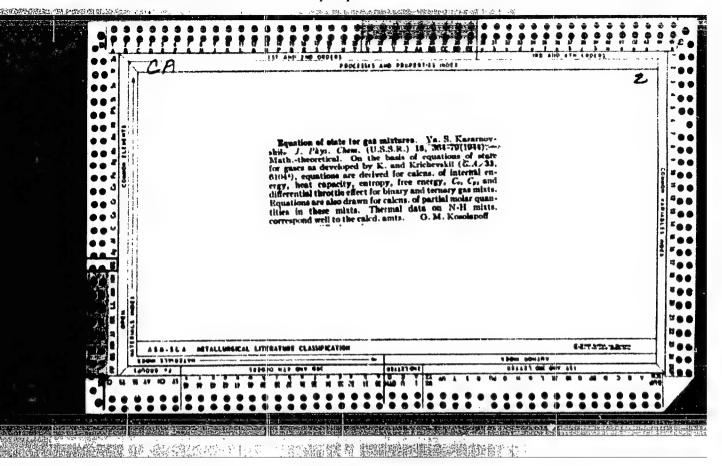


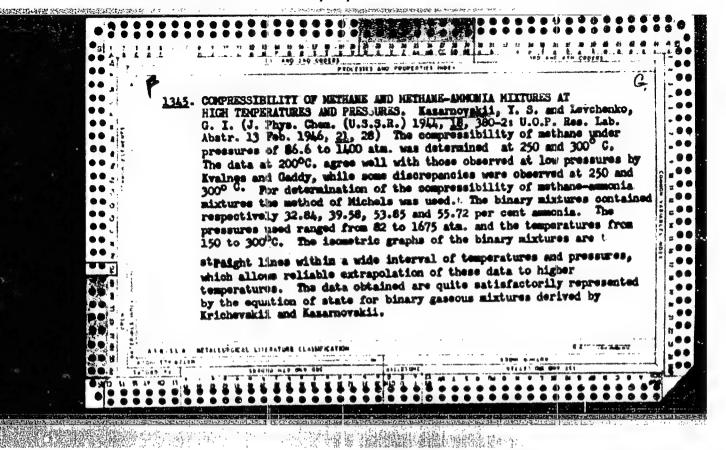






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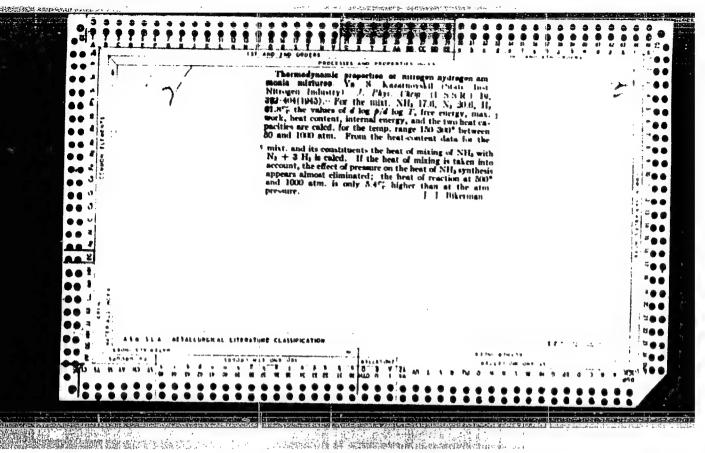
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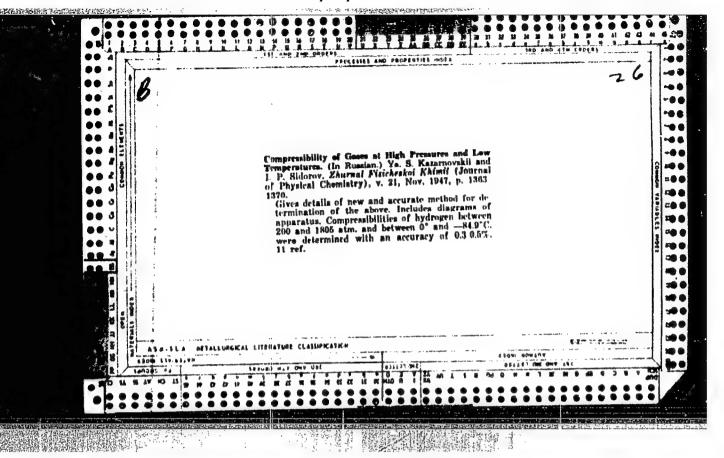
KAZARNOVSKIYI, YA. S.

KRICHEVSKIYI, I. R., KAZARNOVSKIYI, YA. S., and LEVCHENKO, G. T. (Nitrogen Inst. Moscow) J. Phys. Chem. (USSR) 19, 314-22 (1945) Thermodynamic properties of compressed nitrogenhydrogen mixtures.

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KAZARIKOVSKIY, Ya.S., kand.khim.nauk; SIDOROV, I.P., kand.tekhn.nauk; KAZARIKOVSKAYA, D.B., kand.khim.nauk

Equilibrium of horogeneous gas reactions at high pressure.

Trudy GIAP no.7:21-25 '57. (MIRA 12:9)

(Phase rule and equilibrium) (Gases)

KOBOZEV, H.I., doktor khim.nauk; KAZARNOVSKIY, Ya.S., kand.khim.nauk; MENDELEVICH, I.I., kand.takhm.nauk

Explosive conversion of methane. Part 1. Trudy GIAP no.7: 155-166 '57. (MIRA 12:9) (Methane) (Oxidation)

KAZARNOVSKIY, Ya.S., kand. khim. nauk; DEREVYANKO, I.G.; STEZHINSKIY, A.I.

Explosive conversion of methans. Part 2. Trudy GIAP no.8:89-105

(MIRA 12:9)

(Methans) (Gas and oil engines) (Fuel-Testing)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721330005-0"

KAZARNOVSKIY, Ya.S., kand.khim.nauk; KOBOZEV, N.I., doktor khim.nauk; STRZHINSKIY, A.I.; TORBAN, B.S.

Explosive conversion of methans. Part 3. Trudy GIAP no.8:106-123
'57.

(MIRA 12:9)

(Methans) (Gas and oil engines) (Fuel--Testing)

KAZARNOVSKIY, Ya.S.: KARKHOV, H.V.

APPROVED FOR RELEASE: Q6/43/2000.p.; CIARDP86-8051BR000721330005-0" SOLDTSTVA, I.H.

Oxidative thermal pyrolysis of hydrocarbon gases to acetylene.

Khim. prom. no. 7:547-551 O-E '60. (MIRA 13:12)

(Hydrocarbons) (Acetylene)

SEMENOV, V.P.; KAZARNOVSKIY, Ya.S.

High temperature conversion of individual hydrocarbons and their mixtures. Gas.prom. 5 no.3:33-40 Mr '60. (MIRA 13:6)

(Gases-Analysis) (Hydrocarbons)

High-temperature conversion of hydrocarbons. (ALER 1317)
5 no.7141-50 160.
(Hydrocarbons) (Oxidation)

\$/064/61/000/001/002/011 B110/B215

. Kazarnovskiy, Ya. S., Semenov, V. P., Ovcharenko, B. G., AUTHORS:

Tsypin , A. N., Kolodeyev, I. P., Litvinchuk, V. A.

Problems of apparatus design for the thermooxidative pyrolysis TITLE:

of hydrocarbon gases

Khimicheskaya promyshlennost', no. 1, 1961, 11-15 PERIODICAL:

TEXT: The pyrolysis of hydrocarbon gases for the production of C2H2 and synthesis gas takes place at 1450-1500°C. Since the intermediate CoH2 must not remain in the reaction zone for more than 0.003-0.01 sec, short tongues of flame must be used. As the traditional apparatus by Sachse and Bartholome with maximum production of C2H2 of 3500-5000 tons per year is no longer sufficient, a new more efficient apparatus has to be designed. Highly turbulent combustion increases the rate of flame propagation and shortens the tongue considerably. The method of methane pyrolysis applied by B.S.Grinenko yielded high CoHo concentrations. Its industrial application, however, is

Card 1/7

S/064/61/000/001/002/011 B110/B215

Problems of apparatus design for ...

rendered difficult due to the almost critical velocity of the gas of 200-250 m/sec required for it, due to the high initial temperature (700-8000) of the oxygen necessary for the combustion stabilization (7% of the total amount), and due to an increase in temperature of the reaction channel of up to 2000°C. A pilot plant for average gas velocities and efficiencies of approximately 160 Nm⁵/hr is described. The conical ring nozzle of the burner contained whirl blades. The $\mathrm{CH_4/O_2}$ mixture flowed into the reaction channel at 400°C and approximately 150 m/sec. The oxygen used for stabilization was only 5% of the total O, content. Maximum temperature in the reaction zone was 1450°C; gas velocity: approximately 100 m/sec; its stay: 0.0025 sec. The acetylene yield was 8 to 8.4% of the reaction gases plus deposition of carbon black; 3 to 3.5 g/Nm3 of the initial mixture; ratio 0, consumption = 0.62 to 0.64. According to the author, transition from pilot stage to industrial stage would be most suitable by increasing the number of burners. Fig. 1 shows the pilot plant of 1958. Coke oven gas of the ammonia unit compressed up to 0.36 atm by compressor (4), is purified in cloth filter (5),

Card 2/7

Problems of apparatus design for ...

S/064/61/000/001/C02/011 B11C/B215

and conveyed to the preheating oven (3). Industrial oxygen compressed up to 0.38 atm by a χ_{K-3} (ChK-3) compressor 1 is also conducted into the preheating oven via water separator (2) and filter (5). There, 0_2 is heated to 350° C, and the coke oven gas to 450° C. From mixer (6), the mixture is at a temperature of 300° C conducted into burner (7) and reaction vessel (8) from which the pyrolysis gases flow out at $80-90^{\circ}$ C. After leaving scrubber (13) where the latter were purified from carbon black, they pass the water separator and filter before they are used for the production of acetylene. The triple burner of Fig. 3 which is used by the authors, has four spirals for producing whirls. Stabilizing 0_2 is conducted through their axles. The following parameters have to be observed exactly to attain an optimum course of reaction: consumption of 0_2 and hydrocarbon gas, temperature of preheating, ratios $\left[0_2\right]: \left[\sum C_1\right]^2$ in the initial mixture, and amounts of water. The following control and regulation apparatus were used: $A\eta M - 270$ (DPM-270), $A\eta - 410$ (DP-410), $A\eta - 280$ (DP-280), MU - np - 54 (MSSh-Pr-54), $\theta - 90$ (EPP-09), and $\theta - 90$ (EPP-09), and $\theta - 90$ (AUS) blocks. The following average composition

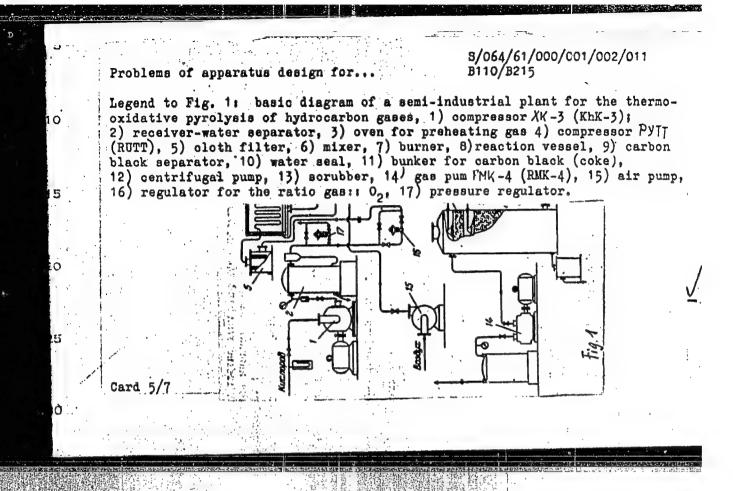
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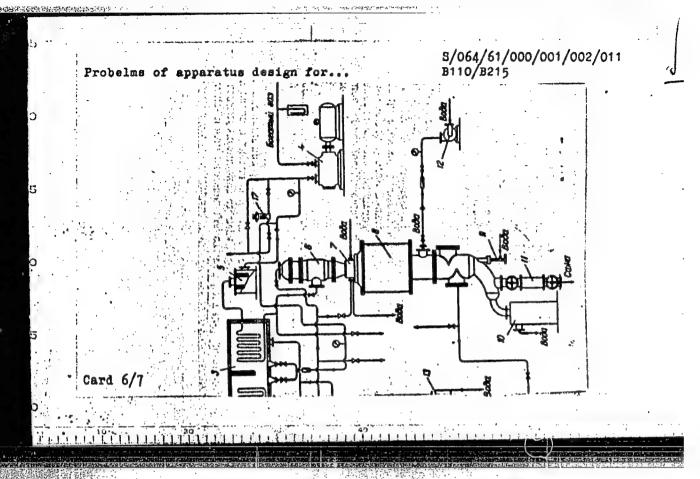
Problems of apparatus design for ...

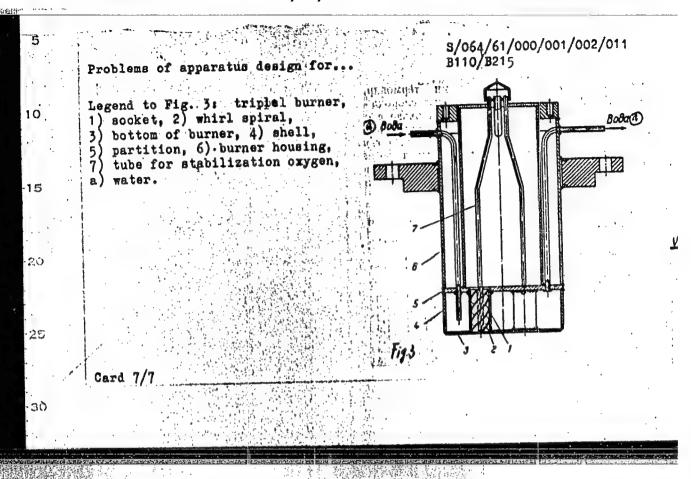
S/064/61/000/001/002/011 B110/B215

of the initial gas was determined: $C_2H_4 = 3\%$, $O_2 = 0.8\%$; CO = 13.8%; $H_2 = 6.7\%$; $CH_4 = 62\%$; $N_2 = 13.7\%$. For stabilizing the flume, 3% of the total oxygen (79 to 98% of O_2) was required. The temperature of the reaction channel was approximatly 1350°C, that of the reactor block 100° C. The total time of reaction was 5000 hr, ratios $\left[O_2\right]:\left[CH_4+2C_2H_4\right]=0.62$ to 0.72. Optimum yield of $C_2H_2=7.3\%$, its average = 6.9%; total cracking = approximately 30%, effective cracking approximately 30%. The adiabatic temperatures of the reaction were lower than that of the hydrogen formation according to $CO + H_2O = CO_2 + H_2$. The temperature of preheating (500°C) probably causes a reduction in O_2 consumption by 10%. The method is suited for supplementing the production of nitrogen fertilizers for which hydrogen is obtained from coke oven gases. A percentage of approximately 4 t of C_2H_2 was obtained. There are 3 figures, 2 tables, and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

Card 4/7







SEMENOV, V.P.; KAZARNOVSKIY, Ya, S.; KOLODEYEV, I.P.; LITVINCHUK, V.A.

Processing existency petroleum residues into synthesis gas. Gaz. prom. 6 no.2:41-48 '61. (MIRA 14:4)

(Gas manufacture and works)

S/081/61/000/020/083/089 B110/B147

AUTHORS:

Semenov, V. P., Kazarnovskiy, Ya. S., Kolodeyev, I. P.,

Litvinchuk, V. A.

TITLE:

Conversion of heavy petroleum residues into synthesis gas

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1961, 405-406,

abstract 20M103 (Gaz. prom-st', no. 2, 1961, 41-48)

TEXT: Experiments on the conversion of mazout into synthesis gas were conducted on an experimental plant (diagram given) for conversion at high temperature. The efficiency of the plant was 6.6-7.9 kg of marcut per hr. The average ratio of the linear velocities of mazout escape from the nozzle and of the vapor-oxygen mixture was ~ 200, the volume of the reaction space was 0.006 m3, the temperature in the reaction mone was 1350-1450°C, and the linear velocity of converted gas in the reaction zone was 6-9 m/sec. Experimental and calculated equilibrium compositions of the reaction mixture, and comparative tables of efficiency with respect to carbon or oxygen, calculated from equations and obtained from the values of material equilibrium, are presented. It is concluded that

Card 1/2

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Conversion of heavy petroleum...

S/081/61/000/020/083/089 B110/B147

the equations indicated for the techniques of commercial gas production from carbon raw material have a universal character. [Abstracter's note: Complete translation.]

Card 2/2

KAZARNOVSKIY, Ya.S.; OVCHARENKO, B.G.; SEMENOV, V.P.; DEREVYANEO, I.G.

Process gas obtained by the high temperature conversion of hydrocarbon gases. Gaz.prom. 7 no.1:43-50 '62. (MIRA 15:1) (Gas, Natural) (Gas manufacture and works)

KAZARNOVSKIY, Ya.S.; KARKHOV, N.V.; KABANOV, F.I.; OVCHARENKO, B.G.

Production of synthesis gas by high temperature conversion of hydrocarbon gases at high pressure. Khim.prom. no.6:396-404 Je (MIRA 15:11)

(Hydrocarbons) (Water gas)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721330005-0"

KABANOV, F.I.; KARKHOV, N.V.; KAZARNOVSKIY, Ya.S.; OVCHARENKO, B.G.; Prinimal uchastiye: ZUYEV, V.I.

Production of process gas by the high temperature conversion of natural gas at elevated pressure. Khim.prom. no.9:547-555 Ag 162. (MIRA 15:9)

(Gas, Natural)
(Gas manufacture and works)

KAZARNOVSKIY, Ya.S.; KAZARNOVSKAYA, D.B.; SIDOROV, I.P.

Equilibrium of homogeneous gas mixtairs reactions at high pressure. Khim.prom. no.10:747-750 0 62. (MIRA 15:12) (Gases)
(Chemical equilibrium)

KAZARNOVSKAYA, D. B.; SIDOROV, I. P.; KAZARNOVSKIY, Ya. S.

Determination of the compressibility of methanol, carbon monoxide-hydrogen and carbon monoxide-hydrogen-methanol mixtures at high temperatures and pressures. Khim. prom. no.3:205-211 Mr 163. (MIRA 16:4)

(Mathanol) (Carbon monoxide) (Hydrogen) (Compressibility)

KAZARNOVSKIY, Ya.S.; KAZARNOVSKAYA, D.B.; SIDOROV, I.P.

Equilibrium of the reaction of methanol synthesis from carbon monoxide and hydrogen at high pressure. Khim. prom. no.6: (MIRA 16:8)

(Methanol) (Carbon monoxide) (Hydrogen)

MIKHAYLOVA, S.A.; KAZARNOVSKIY, Ya.S.; KAZANOVSKAYA, D.B.

Thermodynamic properties of gaseous methanol at high temperatures and pressures. Khim. prom. no.4:244-249
Ap 163. (MIRA 16:8)

KAZARNOVSKIY, Ya. S.; MIKHAYLOVA, S. A.; KAZARNOVSKAYA, D. B.

Influence of pressure on the thermal effect of the synthesis of methanol from carbon oxide and hydrogen. Khim prom no. 3: 183-187 Mr *64. (MIRA 17:5)

ALEYNOV, D.P.; KAZARNOVSKIY, Ya.S.

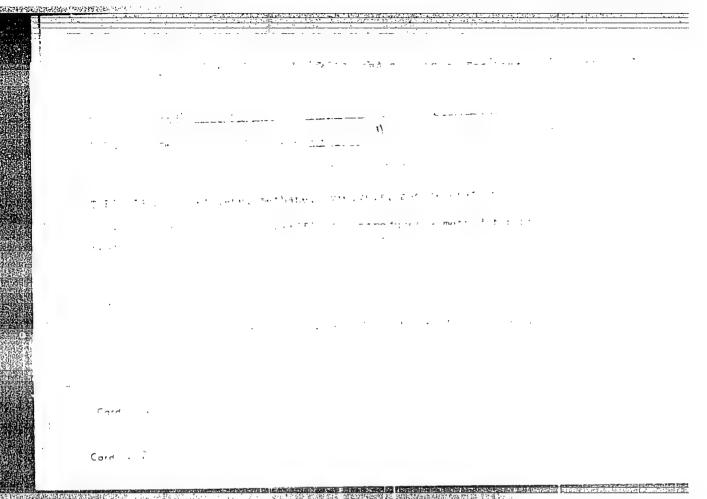
Production of acetylene by the thermal exidative pyrolysis of hydrocarbon gases at elevated pressure. Khim. prom. no.5:332-339 My 164. (MIRA 17:9)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721330005-0"

ALEYNOV, D.P.; KAZARNOVSKIY, Ya.S.

Effect of pressure on the mechanism of the formation and decomposition of acetylene in the thermo-oxidative pyrolysis of methane.

Khim. prom. no.6:422-425 Je *64. (MIRA 18:7)



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ACCESSION NR. AF5010546

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AUTHOR: Alcynova, L. N.; Aleynov, D. P.; Kazarnovskiy, Ya. S.; Kornil v. P. F.

Title Intermediate stages of partial combustion of methane with exygen

SOURCE: Khimicneskaya promyshlennost', no. 4, 1965, 1-6

TOPIC TAGS: methane, combustion, kinetics, pyrolysis, combustion mechanism, partial

ABSTRACT: Partial methane combustion by thermooxidative pyrolysis is the basic process in the production of synthesis gas or acetylene from natural gas a makinetics of partial methane oxidation at lower temperatures have been extensively by Semenal and awarkers. However, the mechanism proposal studies holds only at temperatures below 1000C and cannot be applied to high temperature processes. Experiments were made with oxygen and natural gas in a flow reactor to determine the concentration of intermediates and reaction products follows acetylene, ethylene, ethane, propane, O2, C0, H2) as a function of methane winversion. Buns were made at initial gas temperatures of 25C and 4500 and pressures a land 4 atm. The general trend in the accumulation of intermediates was identical in both experiments. The results indicate that partial oxidation at high temperatures takes place in three stages: 1) methane oxidation, during which exygen is

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used for conversion to CO, H_2 , H_2O , and CO_2 while the acetylene accumulation remains low (0-0.65 conversion); 2) acetylene accumulation, during which the conversion accumulation of the conversion of t

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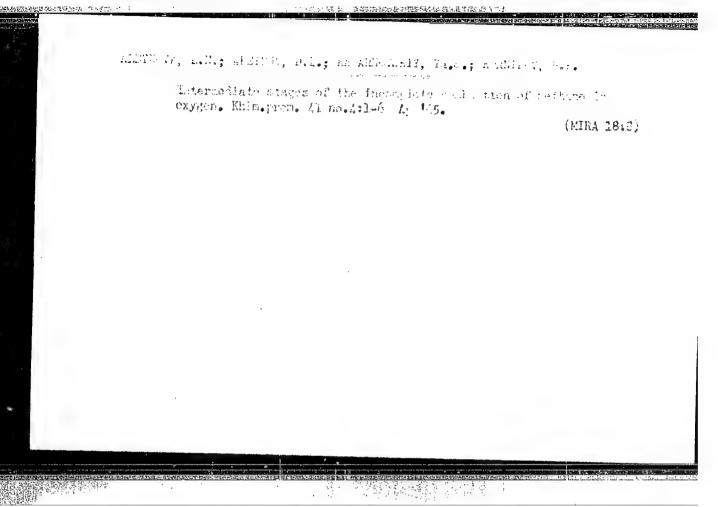
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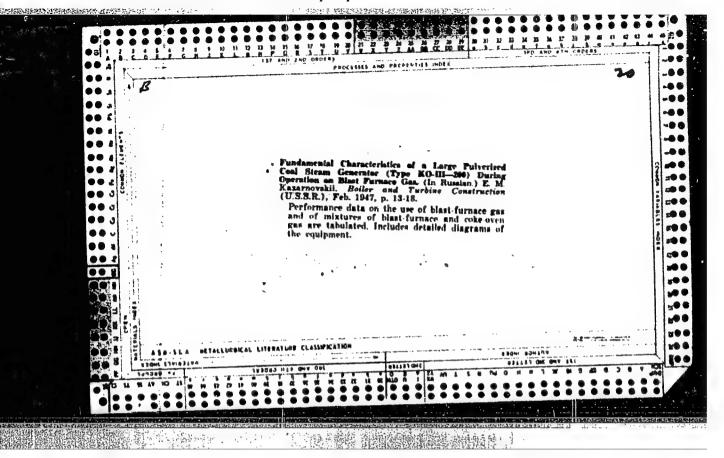
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KAZARNOVESKIY, E. M.

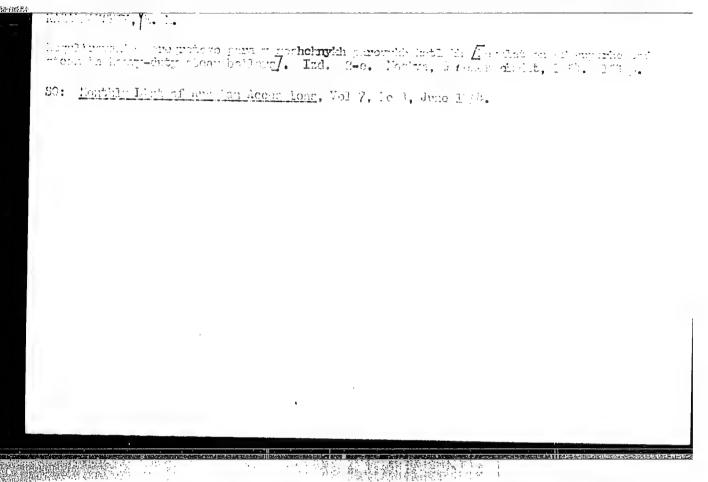
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USSR/Hydrology - Irrigation

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"Some Problems of Planning and Structure of Ponds and Reservoirs," Yu. E. Kazarnovskiy, Cand Tech Sci, Ye. L. Pavlov, Engr

"Gidrotekh i Meliorat" Vol III, No 11, pp 3-11

Soviet kolkhoz workers are accomplishing Stalin's plan for improvement of nature. In the 4 chernozem oblasts of Kursk, Voronezh, Orlov and Tambov alone more than 3,000 ponds and reservoirs have been constructed. Nevertheless, planning and designing of these projects have many defects which further experience and professional knowledge are expected to improve.

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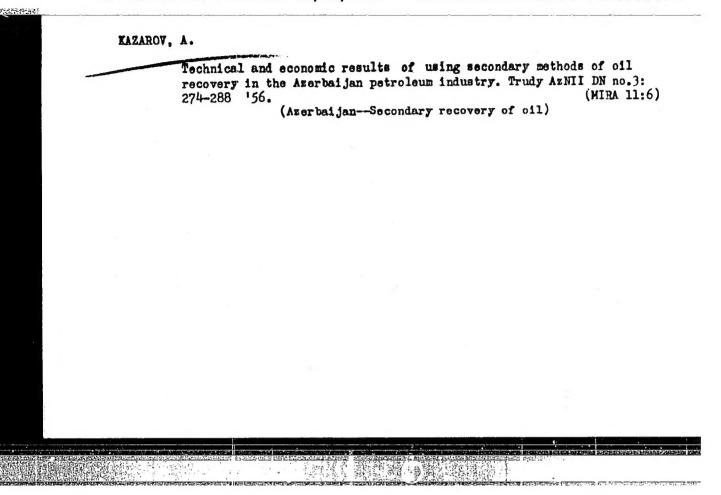
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